

=> d 1-5

L2 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 9051-98-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN  $\beta$ -D-Glucan, (1 $\rightarrow$ 4)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN  $\beta$ -D-1 $\rightarrow$ 4-Glucan  
MF Unspecified  
CI PMS, COM, MAN  
PCT Manual registration  
LC STN Files: AGRICOLA, BIOSIS, BIOTECHNO, CA, CAPLUS, EMBASE, IFICDB,  
IFIPAT, IFIUDB, PIRA, TOXCENTER, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

130 REFERENCES IN FILE CA (1907 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

130 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 9051-97-2 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN  $\beta$ -D-Glucan, (1 $\rightarrow$ 3)- (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN (1,3)- $\beta$ -Glucan  
CN (1 $\rightarrow$ 3)- $\beta$ -D-Glucan  
CN Adjuvax  
CN Corapulan  
CN Drieline  
CN GL 32  
CN Glucan F  
CN Guardoran  
CN Highcareen GS  
CN ImmuStim  
CN Poly(1 $\rightarrow$ 3)- $\beta$ -D-glucan  
CN Polysaccharide 13140  
CN SSG  
CN TAK  
CN TAK (polysaccharide)  
CN TAK-N  
CN Uniglucan 51  
CN VitaStim  
DR 9050-90-2, 9052-00-0, 130809-04-0, 31667-87-5, 199665-06-0  
MF Unspecified  
CI PMS, COM, MAN  
PCT Manual registration  
LC STN Files: ADISINSIGHT, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA,  
CAPLUS, CASREACT, CIN, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT,  
IFIUDB, IMSDRUGNEWS, IMSRESEARCH, IPA, MEDLINE, PHAR, PROMT, RTECS\*,  
TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1412 REFERENCES IN FILE CA (1907 TO DATE)

145 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1415 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN

RN 9041-22-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN  $\beta$ -D-Glucan (9CI) (CA INDEX NAME)

OTHER NAMES:

CN  $\beta$ -Glucan

CN  $\beta$ -Glucosylglucan

CN Biopoly P 3

CN Borigasol

CN Epiglucan

CN Fibosel

CN GluCare N

MF Unspecified

CI PMS, COM, MAN

PCT Manual registration

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, CA, CABA, CAPLUS,  
CASREACT, CBNB, CHEMCATS, CIN, CSCHEM, CSNB, IFICDB, IFIPAT, IFIADB,  
IPA, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2451 REFERENCES IN FILE CA (1907 TO DATE)

87 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2466 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN

RN 83-46-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Stigmast-5-en-3-ol, (3 $\beta$ )- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Nimbosterol (6CI)

CN Stigmast-5-en-3 $\beta$ -ol (8CI)

OTHER NAMES:

CN (-)- $\beta$ -Sitosterol

CN (24R)-Ethylcholest-5-en-3 $\beta$ -ol

CN (24R)-Stigmast-5-en-3 $\beta$ -ol

CN  $\alpha$ -Dihydrofucosterol

CN  $\alpha$ -Phytosterol

CN  $\beta$ -Sitosterin

CN  $\beta$ -Sitosterol

CN  $\Delta^5$ -Stigmasten-3 $\beta$ -ol

CN 22,23-Dihydrostigmasterol

CN 24 $\alpha$ -Ethylcholesterol

CN Angelicin

CN Angelicin (steroid)

CN Azuprostat

CN Betaprostat

CN Cinchol

CN Cupreol

CN Harzol

CN NSC 18173

CN NSC 49083

CN NSC 8096

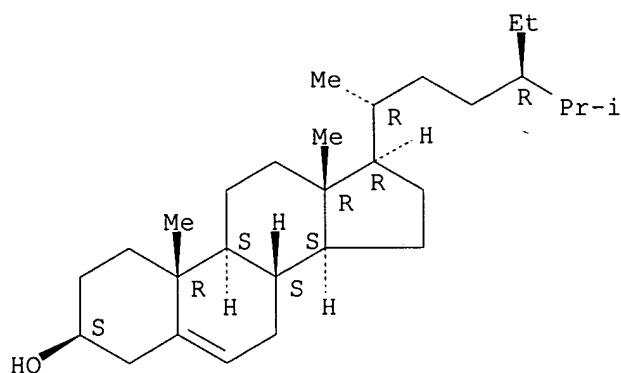
CN Prostatasol

CN Quebrachol

CN Rhammol

CN Rhamnol  
CN Sito-Lande  
CN SKF 14463  
CN Sobatum  
CN Stigmasterol, 22,23-dihydro-  
FS STEREOSEARCH  
DR 8003-23-4, 15764-35-9, 76772-70-8, 182512-23-8  
MF C29 H50 O  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,  
CHEMLIST, CSCHEM, DDFU, DETHERM\*, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB,  
IPA, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SCISEARCH,  
SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



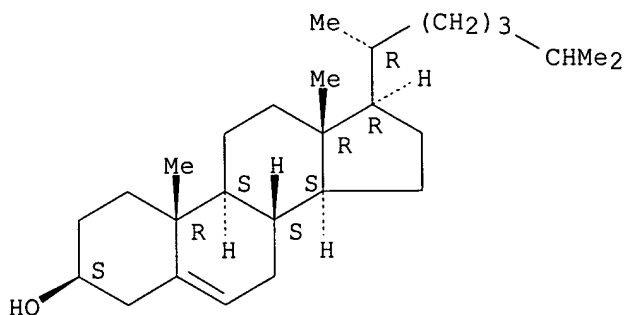
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

12151 REFERENCES IN FILE CA (1907 TO DATE)  
216 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
12201 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
12 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 57-88-5 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Cholest-5-en-3-ol (3β)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Cholesterol (8CI)  
OTHER NAMES:  
CN (-)-Cholesterol  
CN Δ5-Cholesten-3β-ol  
CN 3β-Hydroxycholest-5-ene  
CN 5:6-Cholesten-3β-ol  
CN Cholest-5-en-3β-ol  
CN Cholesterin  
CN Cholesteryl alcohol  
CN Dythol  
CN Lidinit

CN Lidinite  
CN NSC 8798  
CN Provitamin D  
FS STEREOSEARCH  
DR 849593-11-9, 856708-55-9, 732297-95-9, 793670-51-6, 80356-14-5,  
80356-33-8, 209124-38-9, 218965-24-3, 262418-13-3, 378185-03-6,  
676322-57-9  
MF C27 H46 O  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO,  
CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,  
CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, GMELIN\*,  
HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT,  
PIRA, PROMT, RTECS\*, SCISEARCH, SPECINFO, TOXCENTER, TULSA, ULIDAT,  
USAN, USPAT2, USPATFULL, VETU, VTB  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

116265 REFERENCES IN FILE CA (1907 TO DATE)  
9965 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
116481 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
15 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil hcap  
FILE 'HCAPLUS' ENTERED AT 16:43:42 ON 02 AUG 2006  
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FILE COVERS 1907 - 2 Aug 2006 VOL 145 ISS 6  
FILE LAST UPDATED: 1 Aug 2006 (20060801/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> s l1 and l2  
129186 L2  
L3 1 L1 AND L2

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L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2005:672622 HCAPLUS  
DOCUMENT NUMBER: 143:146698  
ENTRY DATE: Entered STN: 29 Jul 2005  
TITLE: Compositions and methods for reducing cholesterol  
INVENTOR(S): Khare, Anil B.  
PATENT ASSIGNEE(S): Cargill, Inc., USA  
SOURCE: U.S. Pat. Appl. Publ., 5 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
INT. PATENT CLASSIF.:  
MAIN: A61K035-78  
SECONDARY: A61K031-715; A61K031-56  
US PATENT CLASSIF.: 424748000; 514054000; 514171000  
CLASSIFICATION: 1-10 (Pharmacology)  
Section cross-reference(s): 18  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005163872	A1	20050728	US 2004-763474	20040123 <--
WO 2005072761	A1	20050811	WO 2005-US1608	20050121 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2004-763474 A 20040123 <--  
PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2005163872	ICM	A61K035-78
	ICS	A61K031-715; A61K031-56
	INCL	424748000; 514054000; 514171000
	IPCI	A61K0035-78 [ICM,7]; A61K0031-715 [ICS,7]; A61K0031-56 [ICS,7]

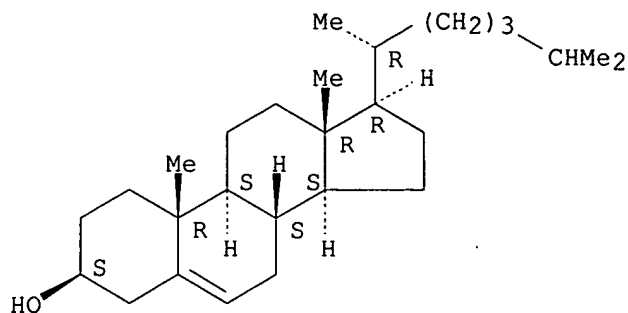
WO 2005072761 IPCR A23L0001-00 [I,A]; A23L0001-00 [I,C\*]; A23L0002-00 [I,A]; A23L0002-00 [I,C\*]; A61K0031-56 [I,A]; A61K0031-56 [I,C\*]; A61K0031-715 [I,A]; A61K0031-715 [I,C\*]  
NCL 424/748.000  
ECLA A23G009/42; A23L001/054C; A23L001/30B2; A23L001/308; A61K031/56+M; A61K031/715+M; A61K035/78+M  
IPCI A61K0035-78 [ICM,7]; A61P0003-06 [ICS,7]; A61P0003-00 [ICS,7,C\*]; A23L0001-00 [ICS,7]; A23L0002-00 [ICS,7]  
IPCR A23L0001-00 [I,A]; A23L0001-00 [I,C\*]; A23L0002-00 [I,A]; A23L0002-00 [I,C\*]; A61K0031-56 [I,A]; A61K0031-56 [I,C\*]; A61K0031-715 [I,A]; A61K0031-715 [I,C\*]  
ECLA A23G009/42; A23L001/054C; A23L001/30B2; A23L001/308; A61K031/56+M; A61K031/715+M; A61K035/78+M

## ABSTRACT:

There are disclosed compns. comprising guggul and at least one of 1, 3:1, 4-beta-glucan or a beta-sitosterol-containing sterol mixture The compns. are preferably suitable for reducing cholesterol level. Also disclosed are food and beverage compns. comprising the guggul-containing compns., that are preferably suitable for reducing cholesterol level. There is also disclosed a method for reducing cholesterol level comprising administering to a human or animal, an effective amount of the guggul-containing compns., or a food or beverage composition that comprises the guggul-containing compns.

SUPPL. TERM: anticholesteremic guggulu ext  
INDEX TERM: Anticholesteremic agents  
Human  
(compns. and methods for reducing cholesterol)  
INDEX TERM: Commiphora mukul  
(extract; compns. and methods for reducing cholesterol)  
INDEX TERM: Sterols  
ROLE: PAC (Pharmacological activity); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
( $\beta$ -sitosterol-containing mixture of; compns. and methods for reducing cholesterol)  
INDEX TERM: 57-88-5, Cholesterol, biological studies  
ROLE: BSU (Biological study, unclassified); BIOL (Biological study)  
(compns. and methods for reducing cholesterol)  
INDEX TERM: 83-46-5D,  $\beta$ -Sitosterol, -containing sterol mixture  
9041-22-9,  $\beta$ -D-Glucan 9051-97-2,  
1,3- $\beta$ -Glucan 9051-98-3  
ROLE: PAC (Pharmacological activity); THU (Therapeutic use);  
BIOL (Biological study); USES (Uses)  
(compns. and methods for reducing cholesterol)  
IT 57-88-5, Cholesterol, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(compns. and methods for reducing cholesterol)  
RN 57-88-5 HCAPLUS  
CN Cholest-5-en-3-ol (3 $\beta$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 83-46-5D,  $\beta$ -Sitosterol, -containing sterol mixture

9041-22-9,  $\beta$ -D-Glucan 9051-97-2, 1,3- $\beta$ -Glucan

9051-98-3

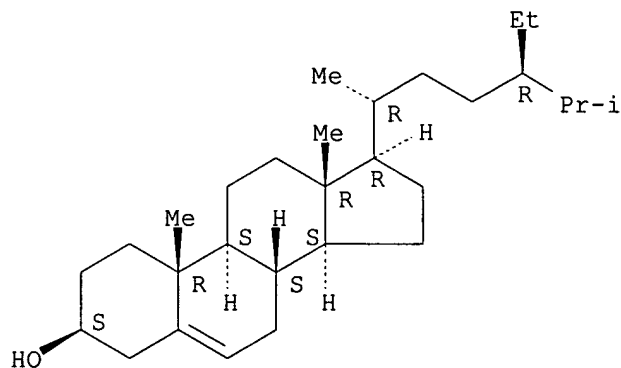
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(comps. and methods for reducing cholesterol)

RN 83-46-5 HCAPLUS

CN Stigmast-5-en-3-ol, (3 $\beta$ )- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 9041-22-9 HCAPLUS

CN  $\beta$ -D-Glucan (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9051-97-2 HCAPLUS

CN  $\beta$ -D-Glucan, (1 $\rightarrow$ 3)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 9051-98-3 HCAPLUS

CN  $\beta$ -D-Glucan, (1 $\rightarrow$ 4)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Schulwitz 8-99

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Mike Mella Examiner #: 69404 Date: 8/2/06  
Art Unit: 1655 Phone Number: 272-0967 Serial Number: 10/763,474  
Location (Bldg/Room#): Rem 3007 (Mailbox #): 3018 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Compositions and methods for reducing doubletad.  
Inventors (please provide full names): Anil B. Khare.

Earliest Priority Date: 1/23/04

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search guggul (which comes from Commiphora mukul) see attachment. Also when searching guggul search Commiphora mukul as an alternative to guggul. ~~it can't find anything with guggul~~. And combine that with the components with claim 2 and then claim 3. Thus, searching guggul + claim 2 and guggul plus claim 3. Also

C. Chan  
Rush

amended  
Case

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Searcher:	Type of Search	Vendors and cost where applicable
Searcher Phone #:	NA Sequence (#)	STN Dialog
Searcher Location:	AA Sequence (#)	Questel/Orbit Lexis/Nexis
Date Searcher Picked Up:	Structure (#)	Westlaw WWW/Internet
Date Completed:	Bibliographic	In-house sequence systems
Searcher Prep & Review Time:	Litigation	Commercial Oligomer Score/Length
Online Time:	Fulltext	Interference SPDI Encode/Transl
	Other	Other (specify)



## **CLAIMS**

What is claimed is:

- 5        1.        A composition comprising guggul and at least one or more components selected from the group consisting of 1, 3:1, 4 - beta - glucan and a beta-sitosterol-containing sterol mixture, wherein the guggul is present in an amount ranging from about 1% to about 99% by weight, based on the composition, and the at least one or more components is present in an amount ranging from about 1 % to about 99% by weight, based on the  
10       composition.
2.        The composition according to Claim 1 wherein the component is 1, 3:1, 4 - beta - glucan.
- 15       3.        The composition according to Claim 1 wherein the component is a beta-sitosterol-containing sterol mixture.
4.        The composition according to Claim 2 wherein the guggul is present in an amount ranging from about 5% to about 15% by weight, and the 1, 3:1, 4 - beta - glucan is  
20       present in an amount ranging from about 85% to about 95% by weight.
5.        The composition according to Claim 3 wherein the guggul is present in an amount ranging from about 5% to about 15% by weight, and the beta-sitosterol-containing sterol mixture is present in an amount ranging from about 85% to about 95% by weight.  
25
6.        The composition according to Claim 1 comprising guggul, 1, 3:1, 4- beta - glucan and a beta-sitosterol-containing sterol mixture, wherein the guggul is present in an amount ranging from about 7% to about 21% by weight, the 1, 3:1, 4 - beta - glucan is present in an amount ranging from about 40% to about 47% by weight, and the beta-

sitosterol-containing sterol mixture is present in an amount ranging from about 40% to about 47% by weight.

5 7. The composition according to Claim 1 wherein the guggul is present in an amount of about 10% by weight, and the at least one or more components is present in an amount of about 90% by weight.

10 8. The composition according to Claim 6 wherein the guggul is present in an amount of about 14% by weight, the 1, 3:1, 4 - beta - glucan is present in an amount of about 43% by weight, and the beta-sitosterol-containing sterol mixture is present in an amount of about 43% by weight.

15 9. A food composition comprising a food and a second composition according to Claim 1.

10. The food composition according to Claim 9 wherein the second composition comprises guggul and one component selected from the group consisting of 1, 3:1, 4 - beta - glucan and a beta-sitosterol-containing sterol mixture.

20 11. The food composition according to Claim 10 wherein the second composition is present in an amount ranging from greater than 0 to about 6 grams.

12. The food composition according to Claim 11 wherein the second composition is present in an amount ranging from about 2 to about 6 grams.

25 13. The food composition according to Claim 9 wherein the second composition comprises guggul, 1, 3:1, 4 - beta - glucan, and a beta-sitosterol-containing sterol mixture.

14. The food composition according to Claim 13 wherein the second composition is present in an amount ranging from greater than 0 to about 10 grams.
- 5 15. The food composition according to Claim 14 wherein the second composition is present in an amount ranging from about 5 to about 10 grams.
16. A beverage composition comprising a beverage and a second composition according to Claim 1.
- 10 17. The beverage composition according to Claim 16 wherein the second composition comprises guggul and one component selected from the group consisting of 1, 3:1, 4 - beta - glucan, and a beta-sitosterol-containing sterol mixture.
- 15 18. The beverage composition according to Claim 17 wherein the second composition is present in an amount ranging from greater than 0 to about 6 grams.
19. The beverage composition according to Claim 18 wherein the second composition is present in an amount ranging from about 2 to about 6 grams.
- 20 20. The beverage composition according to Claim 16 wherein the second composition comprises guggul, 1, 3:1, 4 - beta - glucan, and a beta-sitosterol-containing sterol mixture.
21. The beverage composition according to Claim 20 wherein the second composition is present in an amount ranging from greater than 0 to about 10 grams.
- 25 22. The beverage composition according to Claim 21 wherein the second composition is present in an amount ranging from about 5 to about 10 grams.

**COMPOSITIONS AND METHODS  
FOR REDUCING CHOLESTEROL**

5

**FIELD OF THE INVENTION**

The present invention relates to compositions suitable for reducing cholesterol levels in humans and animals. The present invention also relates to methods for reducing cholesterol levels in humans and animals.

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**BACKGROUND OF THE INVENTION**

Guggul is a well known extract from the resin of the mukul myrrh tree (Commiphora mukul). Guggul has been used in the treatment of obesity and lipid disorders. Guggulipid, an ethyl acetate extract of the resin, has been used in the treatment of hyperlipidemia, and contains two compounds, E-guggulsterone and Z-guggulsterone, that decrease hepatic cholesterol levels.

15

Plant sterols are known to inhibit the absorption and/or reabsorption of cholesterol (external and recycled).

It would be desirable to have products that effectively reduce cholesterol levels in humans and animals, and methods for effectively reducing cholesterol levels in humans and animals.

20

Accordingly, it is an object of the present invention to provide compositions that are suitable for reducing cholesterol levels in humans and animals.

It is a further object of the present invention to provide food and beverage compositions that are suitable for reducing cholesterol levels in humans and animals.

25

It is a still further object of the present invention to provide methods for reducing cholesterol levels in humans and animals.

**SUMMARY OF THE INVENTION**

The present invention relates to compositions comprising guggul and at least one or more of a beta-sitosterol-containing sterol mixture, and 1, 3:1, 4 - beta - glucan.

30

The present invention also relates to food and beverage compositions comprising a food or beverage and a composition comprising guggul and at least one or more of a beta-sitosterol-containing sterol mixture, and 1, 3:1, 4 - beta - glucan.